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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/755,292	01/13/2004	Yoshiharu Hayashi	056207.50393C2	1330
23911	7590 09/30/2004		EXAMINER	
CROWELL & MORING LLP			DESTA, ELIAS	
P.O. BOX 143	JAL PROPERTY GROUP		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20044-4300			2857	

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/755,292	HAYASHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Elias Desta	2857				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>13 January 2004</u> .						
	<u> </u>					
·						
Disposition of Claims						
4) ☐ Claim(s) 5-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 5-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 13 January 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 	a) accepted or b) \boxtimes objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
Attacnment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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Detailed Action

Drawing

- 1. The drawing is objected to because of the following minor informalities:
 - > Fig. 3: change "data base" to "database". Correction is required.

Abstract

- 2. The abstract is objected to because of the following minor informality:
 - > Page 62: delete "doc #299112". Correction is required.

Claim rejection - Double Patenting

3. <u>Claims 5-15</u> are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over <u>claims 1-18</u> of copending <u>Application No. 10/218,488</u> [Hayashi et al. (U.S. PAP 2003/0004659)].

Although the conflicting claims are not identical, they are not patentably distinct from each other because the plurality of electric power generating companies, as noted in claim 1 of <u>10/218,488</u> includes a plurality of power generation companies with a plurality of power generation units and power supply command center. Hence, claim 1 of the instant application is considered a subset of the plurality of power generation companies. For instance, the instant application and <u>10/218,488</u> both calculate power generation efficiency based on the input they obtain form the plurality of power generation units.

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The complexity involved in managing power generation companies cited in $\underline{10/218,488}$ includes all the elements in the instant application and further provides an inter-company communication.

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Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify or reduce <u>10/218,488</u> to the instant claims because <u>10/218,488</u> and the instant application include all the elements necessary to compute the power generation efficiency of a given company that provides a means to prepare operational and maintenance plan.

Hence, <u>claims 5 and 14</u> of the instant application are equivalently represented in claim 1 of 10/218,488; <u>claims 6, 7 and 15</u> in claim 2 of 10/218,488; <u>claim 8</u> in claim 6 of 10/218,488; <u>claim 9</u> in claim 11 of 10/218,488; <u>claim 10</u> in claim 12 of 10/218,488; <u>claim 11</u> in claim 9 of 10/218,488 and <u>claims 12 and 13</u> in claim 10 of 10/218,488.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim rejection - 35 U.SC. 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent

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granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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- Claims 5, 8 and 14 are rejected under 35 U.S.C. 102(e) as anticipated by <u>Ridolfo</u>
 (U.S. PAP 2003/0216888)
- 6. <u>In reference to claims 5 and 14</u>: <u>Ridolfo</u> teaches a system for aiding the preparation of operation and maintenance plans for power generation installation in which plant data are obtained from a plurality of power generation units or sub-systems (see <u>Ridolfo</u>, Fig. 2, and page 2, paragraphs 20-22). The efficiency for the concerned power generation unit or sub-system is calculated by making use of the obtained plant data (see <u>Ridolfo</u>, page 4, paragraph 73-76). Further, the failure probability of machines and apparatus or the parts in the power generation unit is calculated (see <u>Ridolfo</u>, page 5, paragraph 81), and operation and maintenance plans for the power generation unit or system are prepared based on the calculated power generation efficiency and failure probability (see <u>Ridolfo</u>, page 2, paragraph 18).

With regard to claim 8: as noted above in claim 5, Ridolfo further teaches that the failure history data of plant equipment for a given power generation unit or subsystem is stored in data acquisition system (database) as shown in Fig. 2, block 2. The failure probability of the respective plant equipment or machines and apparatus or parts is calculated by making use of the data acquired from the equipments (historical data), and then operation and maintenance plan is prepared based on the calculated power generation efficiency (Equipment failure and degradation module are used to do

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efficiency analysis, page 4, paragraph 74) and failure probability (see *Ridolfo*, Fig. 2 and page 5, paragraphs 81-89).

Conclusion

- 7. Citation of pertinent prior art:
 - Ogilvie et al. (IEEE Article, 'Use of Data Mining Techniques in the Performance Monitoring and Optimization of a Thermal Power Plant') teaches a method of developing a full range model for thermal power plants.
 - Kinoshita et al. (U.S. Patent 5,371,606) teaches automation system for nuclear power plants.
 - Eryurek et al. (U.S. PAP 2002/0169514) teaches automatic work and parts order generation and tracking system.
 - Janssen et al. (U.S. Patent 5,122,727) teaches electric power supply system with distribution of output.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Desta whose telephone number is (571)-272-2214. The examiner can normally be reached on M-Thu (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571)-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-308-5841 for regular communications and After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-1782.

Elias Desta Examiner

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DONALD E. McELHENY, JF PRIMARY EXAMINER

-ed

September 16, 2004